



Ernest E. Choat

## Ernie Choat Awarded MS Degree At U.T.

Graduation time, March 15, at the University of Tennessee, saw a well-known Y-12er receive his advanced degree. Ernest E. Choat, Environmental Control Engineering, was awarded his Masters Degree in Industrial Management. Ernie already holds a BS in mechanical engineering, given in 1951 from U.T.

The Y-12er is a native of Etowah, and served in the U. S. Navy in 1945 and 1946. Before coming to Y-12 March 2, 1953, he was with the Tennessee Coal and Iron Division of the U. S. Steel Company, Birmingham, Alabama. Choat lives at 672 Robertsville Road with his family. His wife is the former Kathleen Long, and they have two sons . . . Ernie Jr., Ronnie, and a daughter Margaret Ann.

Ernie is a registered professional engineer, a member of the American Society of Mechanical Engineers; the American Association for Contamination Control; and the American Society of Heating, Refrigeration and Air Conditioning Engineers. Active in the PTA, he has served as president of the Willowbrook and Linden grammar school PTA, past president of the Oak Ridge Council of PTA's, vice president of the Third PTA District, and State Citizenship Chairman.

Activity in the Boy Scouts and the Robertsville Baptist Church also occupy much of the busy Y-12er's time.

All of Choat's post-graduate work was accomplished through aid from the Union Carbide Educational Assistance Program.

### SECURITY OF AGE

More of us would live to a ripe old age if we did not wear ourselves out trying to provide for it.



Raymond K. Barnett

## Barnett Promoted In Chemical Services

Chemical Services announces the promotion of Raymond K. Barnett to process foreman, effective April 1.

Barnett, born in Sweetwater, served in the U. S. Army from 1950 until 1952 in Japan and Korea. He worked in a service station until he came to Y-12 April 20, 1953.

Married to the former Carolyn Edgemond, Barnett lives at 204 Kelsay Drive, Kingston. In his spare time, he says he likes to do a lot of hunting and fishing.

## Vanderbilt's Philpott Is Physics Seminar Guest

John Philpott, Vanderbilt University, will speak at this week's Physics Division seminar. His subject will be "Realistic Form Factors for Nucleon Transfer Reactions."

The seminar is set for Friday, April 5, at 3:15 p.m., in the East Auditorium of ORNL's 4500 building.

## Houston, Stokes Promotions Are Announced In Assembly And Metal Preparation Division

Two promotions are announced for Y-12, one effective Monday, April 1 . . . and another one January 1 of this year.

Hoyt C. Huston, Alpha Five Processing, became a process foreman April 1. Huston, a native of Keyes, Oklahoma, lives with his family at 103 Alger Road, Oak Ridge. Mrs. Huston is the former Mary Hood . . . and they have two children, a daughter Angela and a son Bill.

Huston worked with Kaighin and Hughes, Dupont, (Aiken, South Carolina), and Rust Engineering, here before coming to Y-12 July 11, 1955.

Lloyd E. Stokes became an assembly foreman January 1 in Beta Two Assembly. He was born in West Frankfort, Illinois.

Stokes lives at 114 Underwood Road, Oak Ridge, and is married to the former Betty Ann Ralph. The couple has four children, daughters Lisa Ann and Debby in school, and pre-school age sons Mark and Greg.

The new foreman attended Tennessee Polytechnic Institute and the University of Tennessee. He worked two summers as a summer employee at ORGDP, and worked with the Towle Auto Machine Services, Knoxville, before coming here November 30, 1959.

## Carelessness—Neglect Cause Most Home Fires

U. S. homeowners lose over \$360,000,000 a year from fire, National Fire Protection Association figures show. Carelessness and neglect is the story behind almost everyone of these fires, NFPA says.



Hoyt C. Huston



Lloyd E. Stokes

## Thermonuclear Offers Two Seminars Monday

The Thermonuclear Division offers two special seminars next week . . . both on Monday, April 8. The first one, set at 9 a.m. will feature F. W. Crawford, Stanford University, who will speak on "Cyclotron Waves."

The second one, at 2 p.m. will feature Volney C. Wilson, General Electric Company, who will speak on "Thermionic Conversion."

Both seminars are set in the TD Conference Room, Building 9201-2.

## Badge Swap Will Continue—April 10

Badge exchange will continue through until 11 p.m. next Wednesday, April 10. Y-12ers are currently trading their old winter quarter badges for new ones . . . with yellow borders.

If an employee has not picked up his badge by next week, he will have to report to Badge and Pass, Building 9704-2.

## Friday, April 12 Is Official Holiday

Friday week, April 12 is an official holiday for Y-12ers.

Good Friday, observed by Christians as the day of crucifixion to be followed by the joy of Easter, is one of the eight holidays observed by the plant.

No employee will be required to be at work, except those whose presence is required for the continuous operation or protection of the plant.

## Welding Society Meets Tuesday

The April meeting of the Northeast Tennessee Section of the American Welding Society will be held Tuesday, April 9 at the Admiral Benbow Inn in Knoxville. The meeting will be preceded by a social hour at 6:30 and dinner at 7:30 p.m. The technical address will be given by Howard E. Adkins, a Manager of Welding Engineering, Kaiser Aluminum and Chemical Laboratories, Inc., Rosemont, Illinois. Adkins taught Mechanical Engineering at the University of Wisconsin before joining Kaiser in 1958. He is presently serving on several AWS technical committees. Adkins' address is titled "Metallurgical and Practical Aspects of Gas Tungsten-Arc and Gas Metal-Arc Welding of Aluminum."

Reservations for the dinner may be made by contacting C. R. Eichelberger at extension 3-5851, or Knoxville 588-8661. All persons who are interested in welding, both AWS members and non-members, are invited to attend the meeting.

## Siren Test Is Set For Sunday, April 7

The regularly scheduled quarterly siren test of alarm systems will take place Sunday, April 7, at 9 a.m. These tests will be the attack warning (the wail of the siren, up and down for three minutes.)

Sirens on Buildings 9201-3, 9996, 9204-4 and 9213 will be tested. The test will cover "Attack Warning" only.

Employees at work Sunday need not leave their work stations. Prior to the tests, a voice announcement will be made to personnel in Y-12 over the public address system.

## SAFETY SCOREBOARD

The Y-12 Plant Has  
Operated  
Nine Days Or  
212,000 Man-Hours  
(Unofficial Estimate)  
Through March 31  
Without a Disabling  
Injury  
Safety At Home  
At Work, At Play



ANOTHER U.S. ATOMIC ENERGY COMMISSION patent application has been filed in the name of Roy Huddleston, center, for his development, a "Hydrostatic Extrusion Apparatus." He is above congratulated by George Marrow, Chemical Engineering Development, right . . . as W. K. Whitson, Development Division Superintendent, looks on from the left.



# The Bulletin

Published Weekly For The  
Y-12 Employees Of  
UNION CARBIDE  
CORPORATION



NUCLEAR DIVISION

JAMES A. YOUNG Editor

Member



Appalachian  
Industrial  
Editor's  
Association

American Association Industrial Editors

OFFICE

Post Office Box Y  
Oak Ridge, Tenn. 37830  
Telephone 3-7100

## Engineering Mourns William C. Clark

The plant was saddened last week by the death of Mr. William Curtis Clark, Civil and Architectural Engineering. Mr. Clark died in a Knoxville hospital, Sunday, March 24.

A native of Troup County, Georgia, he held a BS degree in chemical engineering from Alabama Polytechnic Institute, Auburn; and an MS in engineering mechanics from the University of Arkansas. Before coming to Y-12 March 28, 1960, Mr. Smith was employed with the Georgia Power Company and General Electric, Cincinnati.

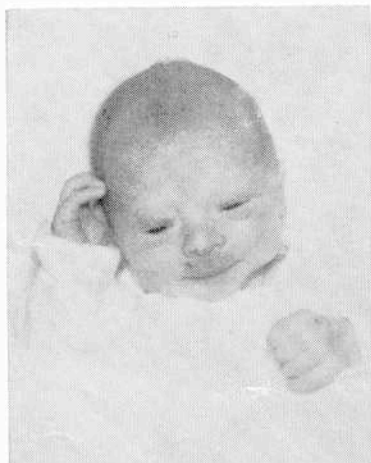
Survivors include his wife Mrs. Sara Briskey Clark, son, William C. Clark Jr., at home at Route 1, Loudon; daughters, Susan, Texarkana, Texas and Rebecca, University of Auburn; parents Mr. and Mrs. R. D. Clark; sister, Mrs. Gwendolyn Estes; brother, Robert David Clark Jr., all of West Point, Georgia.

A memorial service was held Tuesday, March 26, at the Cumberland Presbyterian Church, Loudon, with the Reverends Ellis Nugent and Tony Dycat officiating. The body was cremated.

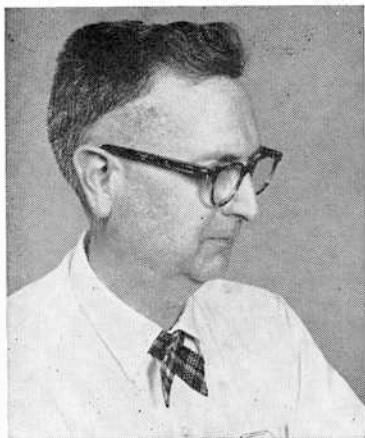
Mr. Clark was a member of the Cumberland Presbyterian Church, and a member of several honorary and professional societies.

Deepest sympathy is extended the Clark family.

We hold the key to world peace. Continue to protect all information not officially released.



**RANDALL D. McWHORTER** was born February 26 to Gordon and Dayle McWhorter at Baptist Hospital. He is the newest grandson of Homer Park, H-2 and F-Area Shops; and Dot Park, Y-12 Plant Records.



Louis M. Doney

## Doney Is Named Conservation Head

Lou M. Doney, down in Chemistry Development, was recently elected president of the Tennessee Conservation League. The annual conference of the TCL was held recently in Jackson.

Doney, active in many civic and fraternal organizations, has been one of the driving forces behind the Lion's Club and its assistance to the blind in the area.

He had previously served in the TCL as an East Tennessee vice president, and has been one of the prime movers in the fight to keep the trans-mountain road out of the Great Smokies National Park.

Doney warned the conservationists that the matter is being reopened, however, and urged members of the league and clubs throughout the state to contact their legislators to fight anew the road that "would spoil one of the greatest expanses of American wilderness still in existence."

In addition to his many other activities, Doney is serving as chairman of the committee for nominating Fellows to the American Ceramic Society.

## 'Horse-O-Rama' Will Be Given By Playhouse

Director Paul Ebert, Oak Ridge Playhouse, will hold tryouts next Monday, April 8, at 7:30 p.m. in the Playhouse auditorium for roles in the final production of the group's 25th and most successful season. The play for which he is casting is a take-off on Westerns, called "Horse-O-Rama," written by Esther Kitzes, Helen Knox and Betty Osborn. It was produced by the Playhouse many years ago and has been requested so frequently that it was decided to repeat it as a special closing for the Silver Anniversary Season.

A total of 15 men from 25 and up and four women, 18 and older, are needed for the cast. Those who audition for leading roles should be able to sing since there is music throughout the show. Tryouts are open to everyone, regardless of experience or lack of it in the theatre. For further information, contact Director Ebert.

## Nuclear Fuel—Both Compact, Long-Lasting

Nuclear fuel is both compact and long-lasting. A pound of uranium is a piece no larger than a golf ball and has the potential energy of approximately three million pounds of coal. Even with today's so-called light water power reactors, which use only a fraction of the uranium in their fuel cores, comparatively small amounts of nuclear fuel will last a long time.



'April shakes out her rain-drenched hair,' as the poet says. As we say happy anniversary to several Y-12ers, observing important landmarks with Union Carbide Corporation.

20 YEARS

**Ben L. Hammer**, Chemistry Development, April 9.

15 YEARS

**John H. Metcalf**, Research Services, April 3.

**Conie F. Jenkins**, Buildings, Grounds and Maintenance Shops, April 6.

**Maggie K. Martin**, Janitors Department, April 8.

**Samuel R. Messamore**, Area Five Maintenance, April 8.

## Spring Bustin' Out All Over!

With Spring "bustin' out all over," everybody wants to "bust out" too.

Unhappily this is the time when parents, in the urge to get out, too often make the fatal error of leaving small children alone in the house, according to the National Fire Protection Association.

That quick shopping errand, that brief cup of coffee with the neighbor next door is all the time needed by fire to do its deadly work. Sometimes the children start the fires, playing with matches or stoves. Sometimes fire simply seems to choose this moment to strike.

The shocking fact, established by the NFPA studies, is that one child out of every three who die in fires was alone and helpless when the fire struck.

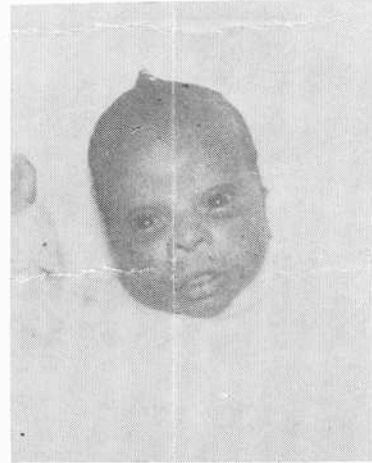
Whenever you are tempted to run out for "just a few minutes" without the children, don't. Take them with you, or leave them home with a competent older family member or babysitter.

Play it safe, and you'll never be sorry!

## Instrument Society Meeting Set Tonight

The Oak Ridge Section of the Instrument Society of America is meeting tonight, Wednesday, April 3, at the Holiday Inn, Oak Ridge. The social hour begins at 6 p.m. with dinner at 6:45.

Ernest C. Magison, Development Section Supervisor with Honeywell, Inc., will speak on "Intrinsic Safety. Its Past, Its Practice, and Its Future."



**THE WILBERT D. MINTERS** announced the birth of Wilbert Douglas Minter Jr., born Valentine's Day, February 14, in East Tennessee Baptist Hospital. The baby's father is in Y-12's Records Center.



**IT WOULD TAKE A CONTORTIONIST** to make his way through the sidewalk provided between the parking lanes. The sidewalk is there for pedestrians, but the above motorists have overparked, thus blocking most of the walking space. Some of the lanes in the portals have concrete stops, but even then a car can be over-parked with its front end protruding into the sidewalk area. When the above conditions exist, the man on foot has no other choice, but to get out in the middle of the lanes.



**WERE THESE PARKERS MORE POLITE** than the others? No over-parking in this area was noted . . . just two lanes away from the other photos. Consideration of the other guy is one of the prime responsibilities of each individual as far as use of the parking areas are concerned. When you care about the next fellow, you make sure you are following all the suggested methods of improving vehicular parking and parking lot usage.

## April 21-27 Will Be Secretaries Week

Secretaries Week will be observed throughout the United States April 21 through April 27. Sponsored by the National Secretaries Association, International, the week will carry the theme, "Better Secretaries Mean Better Business," according to Mrs. Lenore S. Forti, Detroit, Michigan, president of the association.

## Smoking In Bed Can Bring Permanent Sleep!

Did you put that last cigarette out? Over 200,000 fires a year are caused by unthinking smokers. Check your own smoking habits — and be sure that last cigarette is smoked **before** you go to bed. Smoking in bed can often lead to permanent sleep!

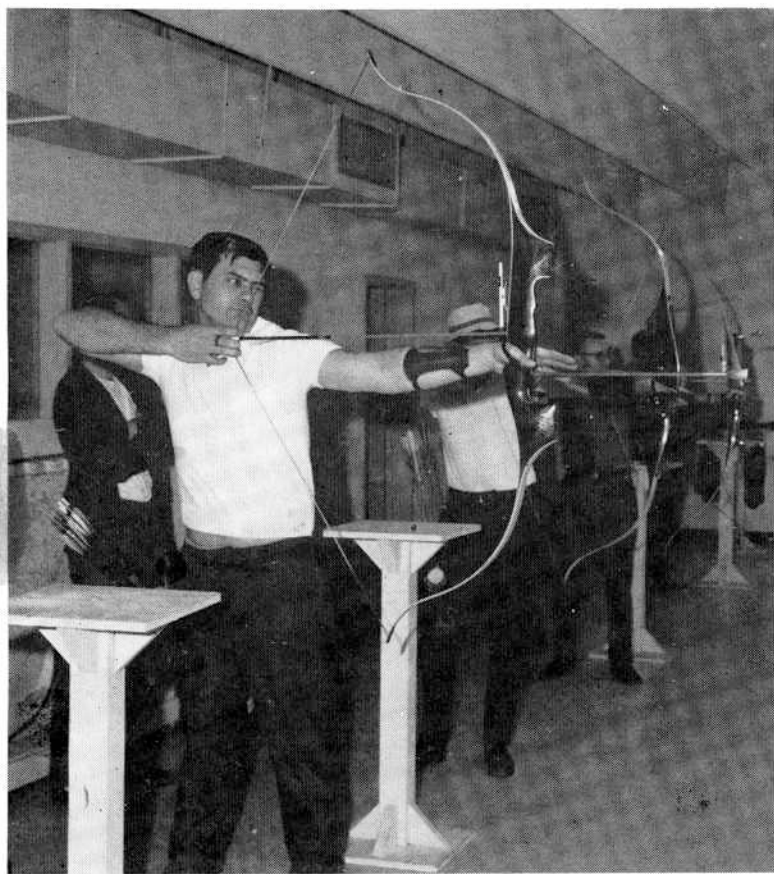
## UCC Scientists Help Fight Food Shortages

Union Carbide Corporation is helping to provide more food through intensive research in the control of destructive pests. If crop pests can be controlled, millions more people can be fed and adequately clothed. Effective control of insects, fungi, weeds and other pests can markedly increase agricultural production. Hundreds of scientists at Union Carbide are striving to provide farmers around the world with safe, economical ways to control pests and improve their way of life.

## LOTS OF LOVE

The teen-ager enclosed a card with his first orchid to his current girl friend: "With all my love and most of my allowance."





**MARSHALL HICKMAN**, Electrical, leads the current Archery League in scratch shooting, firing a 266 score of a possible 300. Not bad, in any league! The Y-12 Robin Hoods fire every Thursday at the Oak Ridge Sportsman's Association indoor range at 5:15, 6:15 and 7:15 p.m.

## Marshall Hickman Tops Archery League As 25 Y-12 Nimrods Come Out To Play!

Archers are now shooting a 10-week league at the new ORSA indoor range. Archery, a continuing-to-grow sport in Y-12, now boasts 25 or more nimrods out for the Spring League.

This year they are shooting the official Professional Archery Association round: an 18" target with a three inch bullseye and

five scoring rings . . . five arrows at 20 yards . . . shooting 12 relays for a 300 possible score.

After four weeks of shooting, Marshall Hickman's 266 scratch stands as the score to beat. R. B. Wright follows with a 265. Both shooters are in Electrical (Tape Control Maintenance.)

The Archery League fires at 5:15, 6:15 and 7:15 p.m. each Thursday afternoon at ORSA's indoor range.

## Basketball Tops Same As 1st Half

Basketball action came to a halt last week, as the teams wound up the 10-game second half. Second half standings came out exactly as first half ones did. The Health Physics team remained undefeated in both sections . . . and the Bombers came in second with nine wins . . . one loss (both losses to the HP team, naturally). The Y-12 Eagles lost two . . . to HP and to the Bombers.

Only three games were put on the records last week . . . Monday, March 25. The HP combo put the Y-12 Eagles down 55 to 45 . . . as Jim Treadwell scored 22 points. Jim Carter took 14, Larry Finch, 12 . . . for 48 of the HP's 55 points.

Ron Gamrot gained 15 for the losers . . . Larry McDonald, 10.

The Radioisotopes took an easy win from the TK's, via forfeit.

The curtain fell as the Chargers edged by the Sharp Shots 43 to 40. Larry DeRoos and Ray Leffler led the winning Y-12 team with 16 and 15 points. Phil McCulley and John Gilbert each scored 12 for the losing squad.

Thus, the Health Physics are crowned basketball champs for 1967-68 . . . and the Bombers are called runners-up.

Final league standings:

Team	W	L
Health Physics, ORNL	10	0
Bombers, ORNL	9	1
Eagles, Y-12	8	2
TK's, ORNL	6	4
Combustion, ORNL	5	5
Radioisotopes, ORNL	5	5
Chargers, Y-12	5	5
Atoms, Y-12	3	7
Bat Boys, Y-12	2	8
Sharp Shots, ORNL	1	9
K-25 Falcons	1	9

## Rounders Keep C Alley Lead

The Rounders keep a one-point lead in C Bowling, thanks to a four-point win over the King Pins. The Parbusters stay up there, also, with another big win over the Royal Flush.

The Fireballs capped the other sweep of the league last week past the Invalids.

Taking three were the Sunflowers over the Big Five and the Rollmasters past the Badgers. The HiLifers hiked three and one-half points over the Rodders.

Jim McLain, Fireballs, rolled terrific single games . . . 246 scratch, 275 handicap. George Cantrell, Fireballs, copped series of 608 scratch, 656 handicap.

The Sunflowers hit new season highs in singles . . . 979 scratch, 1085 handicap. Their 2675 scratch series was also a new season high. The Rounders rounded out team honors, posting handicap series of 3050.

League standings follow:

Team	W	L
Rounders	33	15
Parbusters	32	16
Badgers	31	17
Sunflowers	30	18
HiLifers	24½	23½
Big Five	24	24
King Pins	22	26
Rodders	20½	27½
Rollmasters	20	28
Fireballs	19	29
Royal Flush	17	31
Invalids	15	33

## SURVIVAL ART

Evolutionists say that the reason man survived was not his superior brainpower . . . but the fact that his flesh did not taste very good to fellow animals!

## Recreation



calendar

Saturday, Sunday

April 6, 7

**CRAPPIE RODEO:** Blue Springs Boat Dock, 7 a.m. to 5 p.m. Sponsored by E, F, G, H and J Shifts. All Y-12ers welcome.

**Monday, April 8**

**BOWLING:** C League, 5:45 p.m. Ark Lanes.

**PHYSICAL FITNESS:** (For Women): 7:30 p.m., Oak Ridge High School Girls Gym.

**VOLLEYBALL:** Beginning 6:30 p.m. Oak Ridge High School Gym. Court A: Beavers vs. K-25 Gashouse Gang; Set Ups vs. Mountaineers; Ecobums vs. Naughts. Court B: K-25 Hawks vs. Mix Ups; Dirty Half-Dozen vs. Old Men; Neophytes vs. Charley Browns.

**Tuesday, April 9**

**PHYSICAL FITNESS:** (For Men): 7:30 p.m. Oak Ridge High School Gym.

**Wednesday, April 10**

**FISHING RODEO:** Blue Springs Boat Dock, sponsored by C Shift. All Y-12ers welcome. Hours: 6 a.m. - 5 p.m.

**BOWLING:** Mixed League, Championship Roll-off. 8 p.m. Ark Lanes.

**Thursday, April 11**

**BOWLING:** Classic League, Championship Roll-off. 5:45 p.m. Ark Lanes.

**BADMINTON:** Informal Play employees and spouses, 7:30 p.m. Jefferson Junior High School.

**ARCHERY LEAGUE:** 5:15, 6:15, 7:15 p.m. Oak Ridge Sportsman's Association Indoor Range.

**Friday, April 12**

**HOLIDAY FOR Y-12ERS:** Good Friday.

## Roses 'N Thorns Cinch Mixed Crown For Last Half

The Roses 'N Thorns cinched the last half of league play in the Y-12 Mixed Bowling League last week, with a four point win over the McSprays. (The McSprays won the league's first half . . . and will face the Roses 'N Thorns next week in a championship roll-off.)



Lively

The Rollers rolled over the Twisters for four with some fancy bowling by all members, especially C. R. Lively.

C. R. posted a 266 scratch game! . . . exactly 100 over his average which will draw him an ABC Century patch. His handicap single count was 289. An astounding series of 650 scratch, 719 handicap put him high on the boards.

The Rollers took singles 735 scratch, 889 handicap . . . series of 1983, scratch; 2445 handicap.

Barbara Hackett, Roses 'N Thorns, rolled a 170 scratch single game. Her 212 was tied with Donna Ferguson, Twisters; Mabel Tyler and Nancy Garrison, both with the Hits & Hisses. Barbara's 464 scratch series was high and her 590 handicap series tied with Mabel Tyler.

League standings follow:

Team	W	L
Roses 'N Thorns	37	19
McSprays	31	25
Hits & Misses	31	25
Rollers	29	27
Twisters	26	30
Mustangs	26	30
Goofers	24	32
Alley Cats	20	36



**JIM LAWRENCE, TOOL ENGINEERING**, has already latched onto two big muskies this year in the cool, cool waters of Norris Lake. He's bound to be back, too, in search of the wild muskellunge. Jim says his second one out-weighed the first one, and he has entered both of them in the Y-12 Annual Fishing Rodeo.

## Golf Tournaments Set For Summer

No sooner do we see the first daffodil around that someone doesn't start talking about golf tournaments.

And Y-12ers have done more than talk.

Here's a line up of summer tournaments already set, exclusively for Y-12ers.

**April 27** — Southwest Point, Kingston

**May 18** — Gatlinburg Country Club

**June 22** — Wallace Hills, Maryville

**July 20** — Springbrook, Niota

**August 24** — Whittle Springs, Knoxville

Greens fees at Kingston and Maryville are \$3 . . . at Whittle Springs, \$2 . . . and at Gatlinburg and Niota, \$5.

Tee-off times will be by drawings by foursomes, as usual. Application blanks will appear in the Bulletin prior to the tournaments. The Kingston application will appear in next week's Bulletin.

Only Y-12 Carbide employees plus those of the general staff and Y-12 retirees are eligible for play. Prizes will include golf balls . . . beginning with 10 for low scratch and low handicap scores in four divisions, as has been the custom.

Y-12's golf committee consists of Bill Hamill, Ray McGinnis, Bill Mee, Merle Emory and Bob Cantrell.

There's talk of a couple of leagues set for the summer. More on this later.

## Y Table Tennis League Continues

The Y League is the only 'live' league remaining in the Table Tennis League, and X and Z winners have already been announced and play has closed.

In Y action last week Rokuro Oyamada took three games from Paul Kasten . . . leaving Gordon Brewer in first place thus far . . . with Ed Gambill and Bob Coveyou close contenders . . . only one point behind the top man.

League standings follow:

Player	W	L
Gordon Brewer	32	10
Ed Gambill	31	11
Bob Coveyou	31	11
Al Norris	26	16
Paul Kasten	24	16
Fred Wetzel	16	20
Rokuro Oyamada	18	24
Francois Kertesz	12	30
Art Weinberger	9	16
Bob Brown	0	39

Nothing said, nothing disclosed.

## Two Fishing Rodeos Offered Anglers In Y-12

Two fishing rodeos are in the works for Y-12ers . . . E, F, G, H and J Shiftmen will hold the final weekend of their Crappie race Saturday and Sunday, April 6, 7. Hours are from 6:30 a.m. and registration closes at noon. Fishing hours are from 7 a.m. until 5 p.m. each day.

C Shift is planning a big Spring Rodeo next Wednesday, April 10, at Blue Springs also (the popular Watts Bar dock is the site of E, F, G, H and J's rodeo.)

So if it's fishing you want, your presence is respectfully requested.

## Ecobums Move Up In Volleyball

The Volleyball League has a new leader, thanks to a big sweep last week. The Ecobums downed the Charley Browns 15-2, 15-5, 15-9 and 15-4 to move up to tie with the Beavers. The Set Ups defeated the K-25 Gashouse Gang 15-3, 15-1, 15-1 and 15-7. Other action on Court A saw the Beavers beat the Dirty Half-Dozen 15-5, 15-1 and 15-1 . . . to lose the last game 15-12.

The Old Men downed the K-25 Hawks 15-4, 15-5, 15-13 and 14-5. The Mountaineers defeated the Neophytes 15-9 and 15-5 . . . the Neophytes won games two and four 16-14 and 15-6.

The Naughts nixed the Mix Ups 15-1, 15-13 and 15-4 and the Mix Ups took game four 15-12.

Team	W	L
Ecobums, ORNL	19	1
Beavers, Y-12	19	1
Dirty Half Dozen, K-25	17	3
Old Men, ORNL	16	4
Neophytes, Y-12	14	6
Set Ups, ORNL	12	8
Mountaineers, Y-12	9	11
K-25 Hawks	7	13
Naughts, ORNL	5	15
Charley Browns, ORNL	1	19
K-25 Mix Ups	1	19
K-25 Gashouse Gang	0	20

## Golfers, Softballers Gearing For Summer

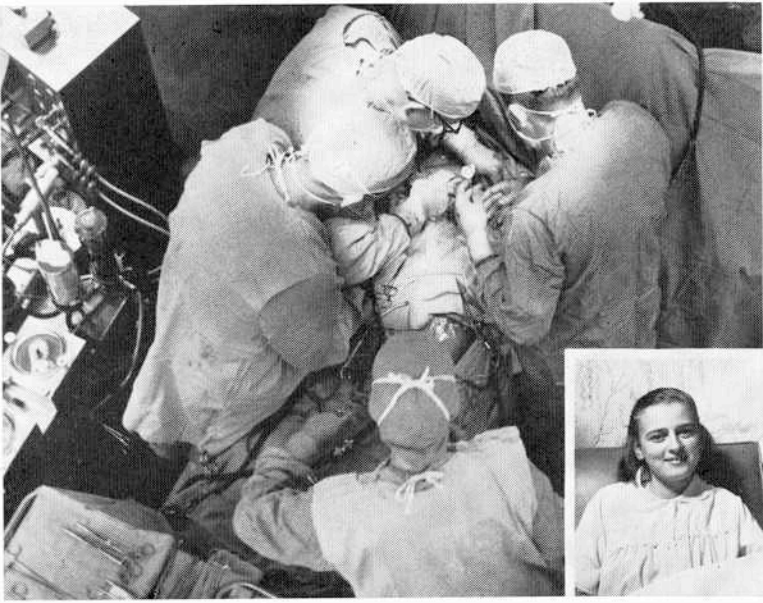
The Recreation Department is paging softball players for summer time relaxation.

Two teams have already entered the big race. Play is expected to get underway the first week of May.

Golfers wishing in the Southwest Point or Melton Hill Leagues are also urged to contact the Recreation Department shortly.

That number again is 3-7109. Get your name in the pot early . . . in either pot, that is. Recreation will take your team or your name to be included on a team.





**HALF HER HEART WAS MADE BY MAN . . .** Marta Acman, inset, is a teen-ager whose open heart operation by Dr. Michael De Bakey at the Methodist Hospital, Houston, Texas, is shown in "The Human Heart" episode of "The 21st Century" series Sunday, April 7, 6 p.m. EST in color on CBS Television Network. The program is carried locally by WBIR-TV, Channel 10. After her operation the function of the left ventricle of Marta's heart was replaced for four days by an artificial device allowing her own heart to rest and heal. Shown above is an open heart operation being performed at the National Institutes of Health, Bethesda, Maryland. "The 21st Century" is sponsored in the public interest by Union Carbide Corporation.

## Artificial Hearts Or Transplants Is Question Posed For 21st Century Medics

When the technique of replacing worn-out human hearts has been perfected, will surgeons rely chiefly on artificial hearts or transplanted hearts?

New research on this problem is revealed in "The Human Heart" broadcast of "The 21st Century," to be televised Sunday, April 7, at 6 p.m., EST, in color on the CBS Television Network, over WBIR-TV, Channel 10. The program features CBS News Correspondent Walter Cronkite as principal reporter and is sponsored by Union Carbide Corporation.

A partial artificial heart in clinical use right now by Dr. Michael De Bakey of Baylor University and the Methodist Hospital, Houston, Texas, will be demonstrated. Dr. De Bakey, noted heart surgeon, will be shown operating on the heart of a teen-age girl, after which he used an artificial device to do the work of her left ventricle for four days, to take part of the load off her heart in the first period of recuperation.

Another heart pioneer whose work will be shown is Dr. William Kolff of the University of Utah Medical Center, Salt Lake City. Dr. Kolff's aim is to make an artificial heart which can be implanted permanently in the patient. He was the first to produce a working artificial kidney. The program will show the manufacture of various parts of an artificial heart.

Transplants of organs from one species to another, including transplants from lower animals to man, are being studied by Dr. Keith Reemtsma, also of the University of Utah. Dr. Reemtsma attempted a kidney transplant from chimpanzee to man in 1964.

Dr. Reemtsma thinks that if a good animal organ can be obtained, it might be possible to make it work in man. The problem is to work out the immunology — to develop drugs which will avert the rejection of the organ by the recipient. The program will show the transplant of a goat's heart into a sheep.

An ailing heart need not always be replaced. By the 21st century new, less radical means of treatment may be useful. One

of these is to treat heart disease with a drug which may dissolve blood clots that can cause heart attacks. The drug is called urokinase. The program with most clot-dissolving drugs tested so far is that they often cause uncontrolled bleeding.

The program will show the treatment of a pulmonary embolism with urokinase. A lung scan indicates that the patient has a clot and then the drug is administered. In half the patients so treated the clot dissolves within a 24-hour period.

"The Human Heart" was written by Fred Warshofsky, science director for the "21st Century," and directed by James Jackson. Isaac Kleinerman is producer and Burton Benjamin is executive producer for the series, which is a production of CBS News.

## Target: Rubbish

Flame . . . flash . . . fatality. That's an accident report in brief — an accident report about someone who didn't remember that clothing can burn.

National Fire Protection Association studies show that children are among the chief victims of clothing fires.

The trouble starts when a child fails to keep an adequate distance from flames, sparks—any sources of intense heat. Among them are matches, smoking materials, stoves, fireplaces, and outdoor fires.

Spring Clean-Up, when there is much burning of rubbish in outdoor incinerators, is a time for parents to be especially watchful.

Sturdy play clothes of heavier fabrics offer some protection, because they do not ignite and burn as readily as light-weight, loosely woven materials.

But the surest protection is to teach children a wholesome respect for fire, and to make sure they understand how important it is to stay well out of the range of flames and sparks.

### COLD FACTS

Women are more subject to colds than men. As one comic stated, "it's because their mouths are open more."

## Rippers, Pinbusters Tie In Classic

The Rippers and Pinbusters are tied for the lead in the Classic Bowling race after four point wins last week. The Rippers tore into the Screwballs, and the Pinbusters blasted the Tigers.

Three point wins were in order for the remaining schedule . . . the Eagles over the Has Beens, the Swingsters past the Smelters, the All Stars by the Splinters, the Eightballs over the Rebels, the Playboys by the Bumpers and the Cubs by the Markers.

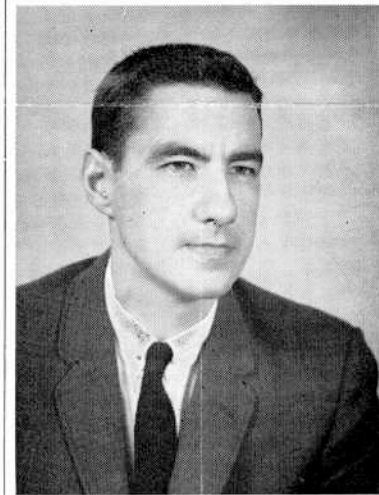
Otis Rackley, Swingsters, rolled high in scratch counting . . . a single of 238, and series of 585. Ted Higgins, Playboys, put handicap scores up . . . singles of 262 series of 653.

The Swingsters were best in singles scratch with 920. The Rippers had a 1032 single handicap. The Playboys scored scratch series of 2684, and the Eightballs put a 3001 handicap series up.

League standings follow:

Team	W	L
Rippers	35½	20½
Pinbusters	35½	20½
Bumpers	34	22
Eagles	34	22
Swingsters	34	22
All Stars	30½	25½
Tigers	29	27
Eightballs	28	28
Markers	27½	28½
Playboys	27	29
Rebels	27	29
Has Beens	26½	29½
Cubs	25	33
Splinters	22½	33½
Smelters	20	36
Screwballs	14	43

## Y-12er Jones Guest At ASTME Meeting



Fred W. Jones

The Knoxville-Oak Ridge Chapter 107 of the American Society of Tool and Manufacturing Engineers will hold a dinner meeting tomorrow, Thursday, April 4, at the Oak Ridge Country Club.

Featured speaker will be Fred W. Jones, Y-12's Fabrication Systems Development. Fred is a native of Bessemer, Alabama, and holds BS and MS degrees in mechanical engineering from the University of Tennessee. He will speak on "Composite Materials."

Dinner is scheduled tomorrow at 7:30 p.m., at costs \$3.70 each. It is served buffet style.

Jones' part of the program is set at 8:15 p.m.

## A Clean Home Seldom Burns Says NFPA

A clean home seldom burns, according to the National Fire Protection Association. Keep your halls, attic, closets, cellar and favorite stow-away spots free from fire's favorite fuel — rubbish. Clean up now for a fire safe home.

### NOTE TO CONGRESS

My dear Congressman: 'Please do not improve my lot in life any further. I can't afford it.'



UNION CARBIDE CORPORATION  
NUCLEAR DIVISION  
P. O. BOX Y, OAK RIDGE, TENNESSEE 37830

(RETURN POSTAGE GUARANTEED)

BULK RATE  
U.S. Postage  
PAID  
Oak Ridge, Tenn.  
Permit No. 71



**THREE CADETS IN THE OAK RIDGE** Civil Air Patrol recently appeared before a special selection board at Memphis, Tennessee, for 1968 Summer special CAP activities. From left are Cadet 2nd Class William E. King; Cadet Major Roy P. Russell Jr., and Cadet Major Stephen C. Lord.

## Oak Ridge Civil Air Patrol Cadets Take Honors Before Memphis Board

Three cadets of the Oak Ridge Civil Air Patrol appeared recently before a special selection board at Memphis, for 1968 Summer special CAP activities. Cadet 2nd Class William E. King was the winner of the CAP Spiritual Life Conference. This activity is conducted by Air Force Chaplains at various locations in the United States.

Cadet Major Roy P. Russell Jr. was selected for the Cadet Leadership Academy to be held at Reno-Stead Nevada Air Force Base, June 16 to July 16. The Cadet Leadership School is designed to develop a cadet's leadership abilities. The requirements for this school are very strict, and a CAP cadet must meet all requirements and show outstanding leadership potential.

Cadet Major Stephen C. Lord was the winner of the much sought after International Air Cadet Exchange. This entails a trip to one of 22 foreign countries in Europe, the Near East, and Central and South America. A cadet selected for this program

will be hosted by the country visited and will fly in Air Force aircraft to and from the country visited. The United States Air Force provides transportation for all these activities including summer encampment each year.

Cadets King and Russell are sons of Y-12ers, and Cadet Lord's father works in ORNL.

Civil Air Patrol offers scholarships, educational grants, study grants . . . all available for youth not planning to attend a four-year college or university course. CAP also offers youth flying training in powered flight and sail plane soaring. CAP develops leadership, integrity and maturity by providing the training needed to make each cadet a good follower as well as a potential leader.

Additional information on the Composite Squadron of the CAP here may be obtained from Roy P. Russell, first lieutenant, on Oak Ridge telephone 483-4500.

## Spring Clean-Up Sets Sights On Rubbish

Household rubbish is the main target of Spring Clean-Up.

And while most folks don't think of the many useless things they have stored around the house as rubbish — that's what it is and it's a major fire hazard.

Rubbish itself does not cause fire, except in some infrequent cases of spontaneous ignition. But it is the kind of fuel that fire feeds on, and all it needs is any stray spark to start it off.

Especially check for quick-burning rubbish in closets, attics and basements—these are among the most likely places for home fires to start, records of the National Fire Protection Association show.

Shoot the works for security.



**Riders (three) wanted from Corner Emory Road and Hackworth Road, Karns to Central Portal, straight day.** B. L. Fritts, plant phone 3-7009, home phone Knoxville 588-6175.

**Ride wanted from Wartburg to West Portal, straight day.** Betty L. Honeycutt, plant phone 3-7277, home phone Wartburg 346-3590.

**Ride wanted from Bob Kirby Road, to Central Portal, straight day.** Don Godwin, plant phone 3-5555, home phone Knoxville 584-1440.